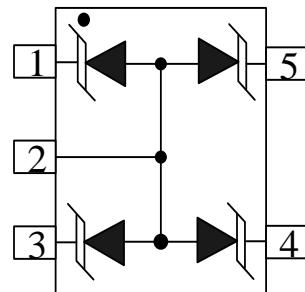
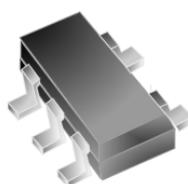


## Features

- 100Watts peak pulse power ( $t_p = 8/20\mu s$ )
- SOT-353 Package
- Unidirectional configurations
- Solid-state silicon-avalanche technology
- Low clamping voltage
- Low leakage current
- Normal capacitance (22pF typical)
- ESD Protection for high-speed data lines to:  
IEC 61000-4-2  $\pm 30KV$  contact  $\pm 30KV$  air  
IEC 61000-4-4 (EFT) 40A (5/50ns)  
IEC 61000-4-5 (Lightning) 6A (8/20 $\mu s$ )



## Mechanical Data

- **Case:** SOT-353 (plastic package).  
Lead free; RoHS compliant
- **Molding Compound Flammability Rating:**  
UL 94 V-0
- **Terminals:** High temperature soldering guaranteed:  
260 °C/10 sec. at terminals

## Applications

- Computers and peripherals
- Communication systems
- Notebook
- Cellular handsets and accessories
- Portable electronics
- Audio and video equipment

## Absolute Maximum Ratings

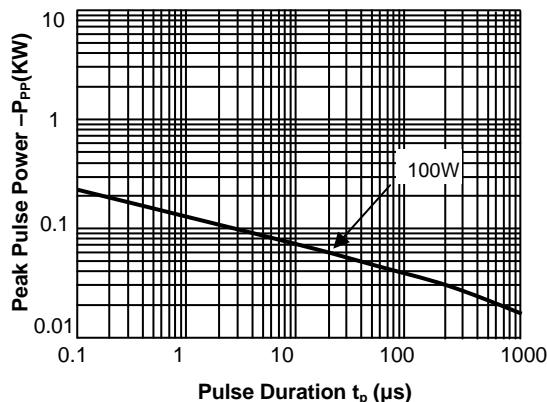
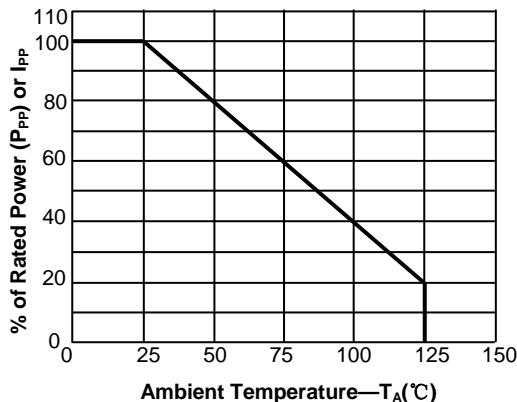
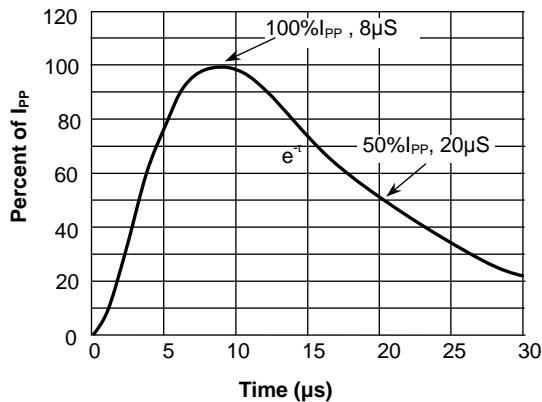
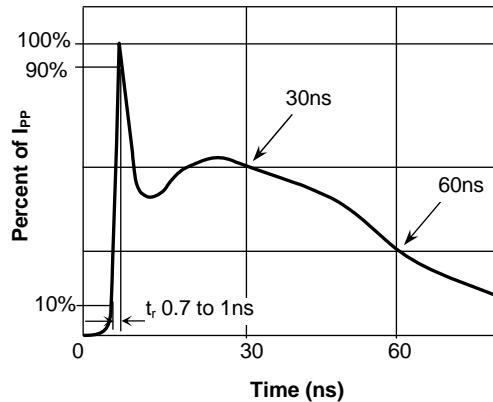
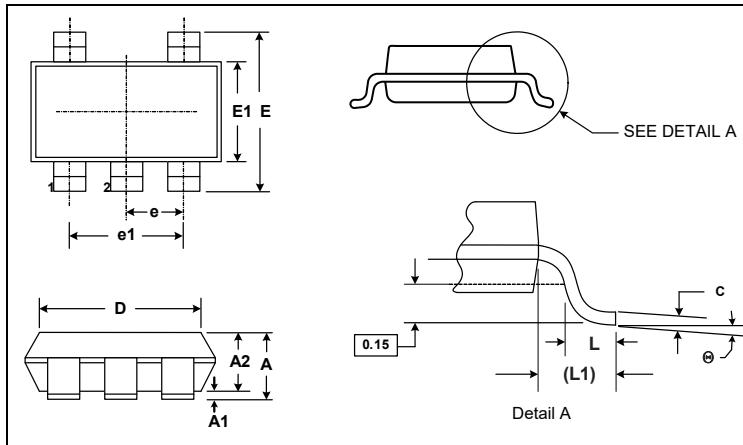
Ratings at 25 °C, ambient temperature unless otherwise specified

| Parameter                                 | Symbol    | Value       | Unit |
|---|-----------|-------------|------|
| Peak Pulse Power ( $T_p=8/20\mu s$ )      | $P_{PP}$  | 100         | W    |
| ESD contact/air discharge (IEC-61000-4-2) | $V_{ESD}$ | 30/30       | kV   |
| Peak Pulse Current ( $T_p = 8/20\mu s$ )  | $I_{PP}$  | 6.0         | A    |
| Junction Temperature                      | $T_J$     | -55 to +125 | °C   |
| Storage temperature                       | $T_{STG}$ | -55 to +150 | °C   |

## Electrical Characteristics

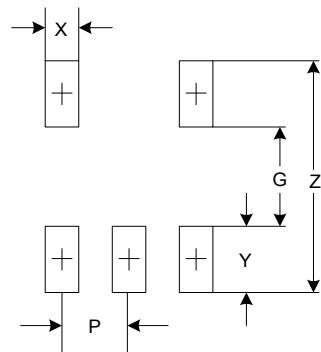
( $T_A = 25$  °C unless otherwise specified)

| Parameter                 | Symbol    | Condition                  | Min | Typ | Max | Unit |
|---------------------------|-----------|----------------------------|-----|-----|-----|------|
| Reverse stand-off Voltage | $V_{RWM}$ |                            |     |     | 5   | V    |
| Reverse Breakdown Voltage | $V_{BR}$  | $I_T=1mA$                  | 6   |     |     | V    |
| Reverse Leakage Current   | $I_R$     | $V_R=5V$                   |     |     | 1   | µA   |
| Clamping Voltage(SURGE)   | $V_C$     | $I_{PP}=6A, T_p=8/20\mu s$ |     |     | 18  | V    |
| Junction Capacitance      | $C_J$     | $V_R=0V, f=1MHz$           |     | 22  |     | pF   |

**Typical Characteristics** ( $T_{amb} = 25^{\circ}\text{C}$  unless otherwise specified)
**Fig.1 Peak Pulse Power Rating Curve****Fig.2 Pulse Derating Curve****Fig.3 Pulse Waveform-8/20μs****Fig.4 Pulse Waveform-ESD(IEC61000-4-2)**
**Package Dimensions**


| SYMBOL | DIMENSIONS |       |            |       |
|--------|------------|-------|------------|-------|
|        | INCHES     |       | MILLIMETER |       |
|        | MIN        | MAX   | MIN        | MAX   |
| A      | 0.035      | 0.043 | 0.900      | 1.100 |
| A1     | 0.000      | 0.004 | 0.000      | 0.100 |
| A2     | 0.035      | 0.039 | 0.900      | 1.000 |
| D      | 0.079      | 0.087 | 2.000      | 2.200 |
| E1     | 0.045      | 0.053 | 1.150      | 1.350 |
| E      | 0.085      | 0.096 | 2.150      | 2.450 |
| e      | 0.020 TYP  |       | 0.650 TYP  |       |
| e1     | 0.047      | 0.055 | 1.200      | 1.400 |
| L      | 0.022 REF  |       | 0.525 REF  |       |
| L1     | 0.010      | 0.018 | 0.260      | 0.460 |
| θ      | 0°         |       | 8°         | 0°    |

### Pad Dimensions



| DIMENSIONS |           |             |
|------------|-----------|-------------|
| DIM        | INCHES    | MILLIMETERS |
| Z          | 0.108     | 2.74        |
| G          | 0.045     | 1.14        |
| P          | 0.026 TYP | 0.65 TYP    |
| X          | 0.016     | 0.40        |
| Y          | 0.031     | 0.80        |

### Ordering information

| Order code    | Package | Marking | Packaging option | Base quantity  | Packaging specification |
|---------------|---------|---------|------------------|----------------|-------------------------|
| YEDST350506AV | SOT-353 | 05F     | Tape and reel    | 3000pcs / reel | EIA STD RS-481          |